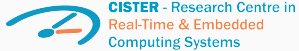
1. Concurrent programming (Module II)

Nelma Moreira & **José Proença**

Concurrent programming (CC3040) 2023/2024

CISTER – U.Porto, Porto, Portugal

https://fm-dcc.github.io/pc2324



Contents of this module

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Blocks of sequential code running concurrently and sharing memory:

- What is Scala and why using it?
- Concurrency in Java and its memory model
- Basic concurrency blocks and libraries
- Futures and promises
- Actor model (maybe)

We will be **less formal**

- focus on concepts and programs
- study operators and libraries
- tool support with Scala

We will have **hands-on**

- Practical programming exercises
- Apply the concepts we see

Logistics

Useful information

Relevant class material and announcements will be posted on the website periodically

`https://fm-dcc.github.io/pc2324`

Lecturers

- Nelma Moreira
  `https://www.dcc.fc.up.pt/~nam/`
- nam@fc.up.pt
- office hours: tbd

- **José Proença**
  `https://jose.proenca.org`
- jose.proenca@fc.up.pt
- office hours: Thursday afternoon

(Please send an email the day before if you wish to meet)

Grading

Grading will consist of:

- **40%** (T1) – individual test for module I (≥ 6)
- **30%** (T2) – individual test for module II (≥ 6)
- **70%** (FE) – individual final exam for modules I and II
- **30%** (**CW**) – **course work** for modules I and II
  - groups of at most 2 students
  - **10%** for module I
  - **20%** for module II

Normal period

$T1 \times 0.3 + T2 \times 0.4 + \mathbf{CW} \times 0.3 \quad (\geq 9.5)$

Mandatory 25% attendance in PL

Extra period (*recurso*)

$FE \times 0.7 + \mathbf{CW} \times 0.3 \quad (\geq 9.5)$